

Current Claims Schedule

- 1 1. (Original) In a level meter employing the radar principle for measuring the fill-
2 level of a medium in a container, with a signal generator for generating and transmitting
3 an electromagnetic signal, an electrical conductor assembly for feeding the
4 electromagnetic signal emanating from the signal generator into the container and
5 returning the portion of the electromagnetic signal reflected by the medium in the
6 container, and an electronic evaluation unit that serves to receive the portion of the
7 electromagnetic signal reflected by the medium in the container and to determine the run
8 time of said signal and thus the fill level of the medium in the container the improvement
9 wherein, differentiated from the conductor assembly, a transducer is provided for the
10 purpose of measuring another physical variable.
- 1 2. (Currently Amended) The level meter as in claim 1, wherein the transducer is
2 provided for temperature, ~~pressure or conductivity~~ measurements.
- 1 3. (Original) The level meter as in claim 1 or 2, and further including a data transfer
2 interface for the output of the additional physical variable detected by the transducer.
- 1 4. (Original) The level meter as in claim 1 or 2, wherein the transducer is mounted
2 on the conductor assembly preferably in detachable fashion.
- 1 5. (Currently Amended) The level meter as in claim 1 or 2, wherein the conductor
2 assembly is in the form of a single-conductor unit, preferably a ~~conductor tube or~~
3 conductor cable, and an insulated inner conductor leading to the transducer extends
4 within the single-conductor unit.
- 1 6. (Original) The level meter as in claim 5, wherein the single-conductor unit is in
2 the form of a feed line leading to the transducer, making possible a data and/or power
3 transfer via said single-conductor unit from or to the transducer, and the electromagnetic

4 signal emanating from the signal generator can be capacitively coupled into the single-
5 conductor unit.

1 7. (Original) The level meter as in claim 5, wherein the inner conductor, insulated
2 from and extending within the single-conductor unit, leads to the transducer and serves as
3 a reference-potential connection and preferably as an instrument-ground connection.

1 8. (Original) The level meter as in claim 1 or 2, wherein the conductor assembly is
2 configured as a twin-conductor unit with two conductors; preferably as a parallel or a
3 coaxial line, one of the conductors is in the form of a feed line leading to the transducer
4 so that by way of the conductor serving as the feed line to the transducer a data and/or
5 power transfer is possible from or to the transducer, and that the electromagnetic signal
6 generated by the signal generator can be coupled into the conductor serving as the feed
7 line to the transducer.

1 9. (Original) The level meter as in claim 8, wherein, differentiated from the
2 conductor serving as the feed line to the transducer, the conductor serves as the reference-
3 potential connection and preferably as the instrument-ground connection.

1 10. (Original) The level meter as in claim 1 or 2, and further including a weight in the
2 end region of the conductor assembly, said transducer being positioned on or in said
3 weight.

1 11. (Original) The level meter as in claim 1 or 2, and further including an additional
2 fill-level analyzer which the additional physical variable detected by the transducer can
3 be fed, and wherein, on the basis of the additionally detected physical variable, an
4 alternative fill-level determination can be made.

1 12. (Original) The level meter as in claim 11, and further including a test unit which
2 can receive both the fill-level information determined by the radar-type measurement and
3 the fill-level information determined by the alternative fill-level measurement based on

- 4 the additional physical variable and by means of which the two fill-level values can be
- 5 compared for testing the reliability of the radar-type fill-level measurement.

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